## SEQUENCE LISTING

- <110> GAUTHIER et al.
- <120> Human anti-idiotypic antibody fragments that mimic Her-2/neu
- <130> P08951US00/BAS
- <140> EP 032930196.6
- <141> 2003-12-17
- <140> PCT/IB2004/004096
- <141> 2004-12-14
- <150> US 10/583,034
- <151> 2006-06-15
- <160> 18
- <170> PatentIn Ver. 2.1
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- Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val 50 55 60
- Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80
- Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95
- Ala Lys Asn Tyr Gln Ile His Pro Phe Asp Tyr Trp Gly Gln Gly Thr 100 105 110
- Leu Val Thr Val Ser Arg Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser 115 \$120\$
- Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val 130 135 140
- Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg 145 \$150\$ 155 \$160\$

Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val 165 170 175

Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly 195 200 205

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<213> Homo sapiens

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Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val $50 \\ 60$ 

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$ 

Ala Lys Asn Val His Ile Gln Pro Phe Asp Tyr Trp Gly Gln Gly Thr  $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$ 

Leu Val Thr Val Ser Arg Gly Gly Gly Gly Ser Gly Gly Gly Ser 115 120 125

Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val 130 135 140

Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}$ 

Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val \$165\$

Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg 180 185 190

Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly 195 200 205

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- Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30
- Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45
- Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val 50 55 60
- Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80
- Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  $85 \hspace{1cm} 90 \hspace{1cm} 95$
- Ala Lys Asn Tyr Gln Ile His Pro Phe Asp Tyr Trp Gly Gln Gly Thr  $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$
- Leu Val Thr Val Ser Arg Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser 115 120 125
- Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val 130 135 140
- Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}155\phantom{\bigg|}$

Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly 200 Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Ser Asp Pro Asp Gln Leu Leu Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu 230 235 Gly <210> 2 <211> 241 <212> PRT <213> Homo sapiens <400> 2 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Asn Val His Ile Gln Pro Phe Asp Tyr Trp Gly Gln Gly Thr 100 Leu Val Thr Val Ser Arg Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val 135 140

Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg

150

145

Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val  $165 \ \ 170 \ \ 170 \ \ \ 175$ 

Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg 180 185 190

Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Ser Glu Pro  $210 \\ \hspace*{1.5cm} 215 \\ \hspace*{1.5cm} 220 \\ \hspace*{1.5cm}$ 

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Gly

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